

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Janne AALTONEN ET AL.

Serial No.: New Application

Filed: November 26, 2001

For: IMPROVEMENTS IN AND RELATING TO A BROADCAST
NETWORK

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

November 26, 2001

SIR:

Prior to examination, please amend the above-identified application as indicated below and consider the remarks which follow:

IN THE SPECIFICATION:

Please replace the original specification with the attached Substitute Specification and amend the claims, prior to calculation of the filing fee.

IN THE CLAIMS:

Please add the following new claims:

35. A system as claimed in Claim 10, wherein:

the second network includes a register of user activity data derivable by the controller.

36. A system as claimed in Claim 10, wherein:
the criterion establishing means is further operable to associate the criterion with
a respective at least one content to be delivered by the first network.

37. A system as claimed in Claim 11, wherein:
the criterion establishing means is further operable to associate the criterion with
a respective at least one content to be delivered by the first network.

38. A system as claimed in Claim 35, wherein:
the criterion establishing means is further operable to associate the criterion with
a respective at least one content to be delivered by the first network.

39. A system as claimed in Claim 10, comprising:
at least one source of content, the source being responsive to the controller to
supply content to the first network for delivery thereby.

40. A system as claimed in Claim 11, comprising:
at least one source of content, the source being responsive to the controller to
supply content to the first network for delivery thereby.

41. A system as claimed in Claim 12, comprising:

at least one source of content, the source being responsive to the controller to supply content to the first network for delivery thereby.

42. A system as claimed in Claim 35, comprising:

at least one source of content, the source being responsive to the controller to supply content to the first network for delivery thereby.

43. A system as claimed in Claim 37, comprising:

at least one source of content, the source being responsive to the controller to supply content to the first network for delivery thereby.

44. A system as claimed in Claim 38, comprising:

at least one source of content, the source being responsive to the controller to supply content to the first network for delivery thereby.

IN THE DRAWINGS:

The drawings are to be amended as indicated on the attached Proposed Drawing Amendments.

R E M A R K S

Applicants submit herewith a Substitute Specification and claims, along with a marked-up copy of the original specification and claims for the Examiner's convenience. The substitute specification includes the changes as shown in the marked-up copy and includes no new matter. Therefore, entry of the Substitute Specification is respectfully requested.

The claims have been amended to eliminate multiple dependencies and new claims 35-44 have been added.

To the extent necessary, applicants petition for an extension of time under 37 CFR §1.136. Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 01-2135 (367.39525X00) and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP



Donald E. Stout
Registration No. 26,422

DES:alw
(703) 312-6600

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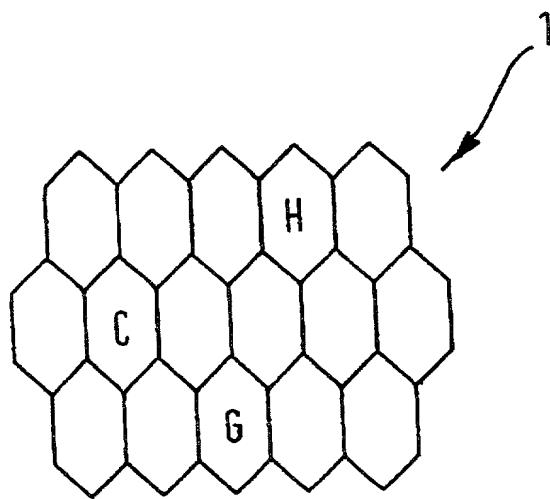


FIG. 1.

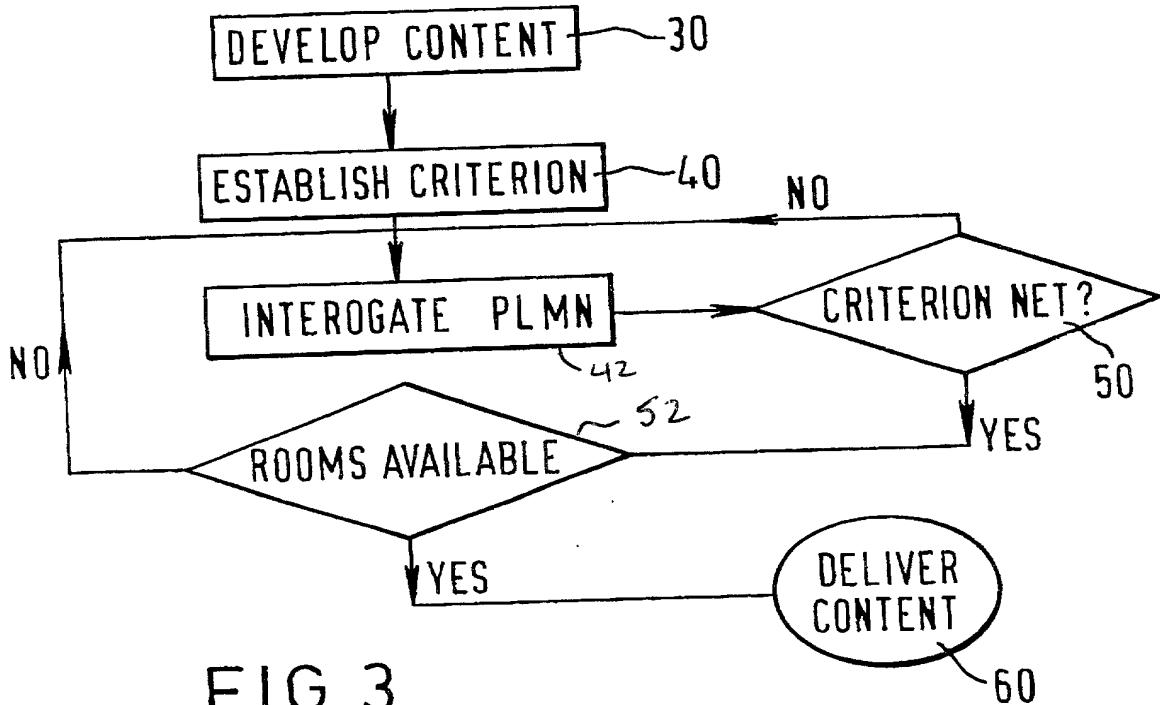


FIG. 3.

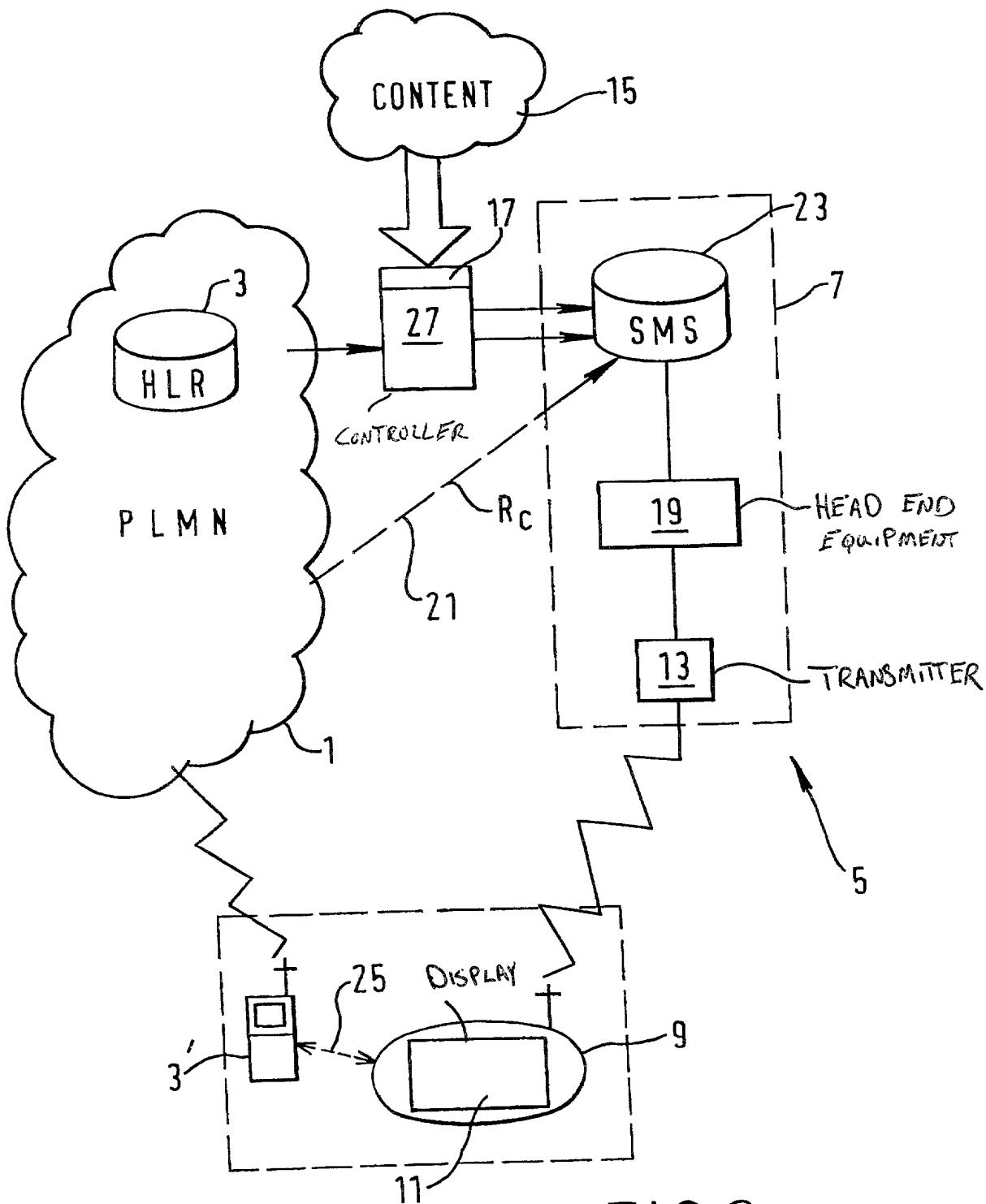


FIG. 2.



PAT 00110 US

Improvements in and relating to a broadcast network*Field of the Invention*

5 The present invention relates to delivery of content over a broadcast network and in particular to a broadband digital broadcast network.

Background of the invention*All CAPS**Description of the Prior Art*

10 As is well known, broadband digital broadcast (BDB) networks, such as the terrestrial Digital Video Broadcast (DVB-T) network, are intended to deliver content in the form of a television broadcast and can also deliver data in a multicast/unicast. The delivery of data and indeed any other service as a multicast or unicast requires the presence of some form of conditional access to ensure the content reaches the correct terminal. Furthermore, to provide 15 interactivity, it is necessary to provide a return channel linking a terminal to the network. In this way, a request for content can be communicated to the network which may subsequently deliver the content to the terminal.

20 It has thus been the case that content has been delivered either at the request of the receiving terminal or at the instigation of the network. In the latter case, the network might receive a request from an external content provider to deliver content in the form of an advertisement or the like over the network. Such a request might lead to the content being broadcast, multicast, or even unicast. However, the decision for a content provider as to how and 25 when to request the delivery of content is hampered by the unidirectional nature of the network.

Summary of the Invention *All CAPS*

30 Thus, according to one aspect of the invention, there is provided a controller connectable to first and second wireless networks, the controller including a

processor operable to initiate delivery of content by ~~said~~ first network in response to a criterion being met by data derived from ~~said~~ second network.

The invention is particular applicable to content delivery by those networks which either do not have or only posses limited return channel capability. Such networks are not suited to the delivery of targeted content such as, for example, advertising. The invention provides the content provider with the advantage of being able to target the delivery of content much more effectively. Preferably, the second network will be selected to the extent that it can provide data advantageous for targeting delivery of content by the first network. Thus, the second network may be a public land mobile network such as a GSM based network, ~~for example~~. In which case, data relating to the user activity in the network, such as might be stored in a GSM Home Location Register (HLR) may be provided to the first network, which could be a broadband digital broadcast network exemplified by a Digital Video Broadcast (DVB) network. Advantageously, the data derived from the second network will allow the content provider to tailor content to suit the desired audience. Thus an advertiser will be able to develop content to suit a particular market opportunities.

Preferably, the criterion is established as a function of at least one indicia representative of user activity in ~~said~~ second network. One criterion may be when the data derived from ~~said~~ second network exceeds a predetermined threshold value. Conveniently, more than one indicia may be utilised in generating a criterion for the delivery of content. Advantageously, the selection of an indicia allows a content provider to make an assessment of the intended audience of the content to be delivered. Thus, a geographical indicia might be appropriate where the content relates to a particular location such as the provision of services in an area for example hotel rooms. In which case a level of user activity could be monitored in that area which, when exceeded, would trigger the delivery of content. Another example of a geographical indicia could be a concentration of user activity at a particular

venue such as a conference centre or sport stadium. The content provider could then arrange delivery of content appropriate to that venue once a certain threshold of user activity had been reached. An alternative indicia could be an identification of user activity amongst a certain population of 5 users identified to the second network. Such an indicia might rely on profiling by the network, revealing data such as grouping users by the length of time they are active in making use of the network or those whose pattern of use takes them to well defined locations such as airports for example on a regular basis.

10 Further advantages of the invention stem from the fact that because delivery of content may be initiated or controlled to occur under certain specific conditions, it is possible for the network provider to levy corresponding charges for the delivery of content. This ability is reinforced by the fact that 15 the network operator can clearly identify to a potential content provider the audience available or even more usefully identify a potential audience in advance to which content could be delivered.

20 The data derived from the second network may comprise a number of connected user terminals to said second network. The first wireless network may be a unidirectional digital broadband network, such as, a Digital Video Broadcast (DVB) network, and the second wireless network may be a bi-directional communications network,

25 According to a further aspect of the invention, there is provided a content delivery system comprising first and second wireless networks and a controller connected thereto, the controller including a processor operable to initiate delivery of content by said first network in response to a criterion being met by data derived from said second network.

30 Although the controller might be physically integrated with either the first or second networks, it could be provided as a separate entity in which case the

connections to the other networks could be conventional in the sense of being dedicated to the purpose or the controller could be connected over a further network such as an intranet or the Internet. Such flexibility is advantageous in that it allows ~~the~~ for the most effective integration of the controller with existing networks and in particular allows access to the controller to those responsible for establishing the content delivery criterion. Thus, the controller could be operated by a service provider or even a content provider.

According to a still further aspect of the invention, there is provided a content delivery method comprising monitoring user activity in a second network relative to a criterion and delivering content to a terminal of a first network when the criterion is met.

According to a still further aspect of the invention, there is provided a controller connectable to a wireless unidirectional digital broadband network and to a wireless bi-directional communications network, the controller including a processor operable to initiate delivery of content via the wireless unidirectional digital broadband network to a determined area in response to a number of user terminals in the determined area connected to the wireless bi-directional communications area exceeding a predetermined threshold value.

According to a still further aspect of the invention, there is provided a content delivery system comprising:

- a wireless unidirectional digital broadband network;
- 25 a wireless bi-directional communications network; and
- a controller connected to both networks, the controller including a processor operable to initiate delivery of content via the wireless unidirectional digital broadband network to a determined area in response to a number of user terminals in the determined area connected to the wireless bi-directional communications area exceeding a predetermined threshold value.

According to a still further aspect of the invention, there is provided a content delivery system, comprising;

a wireless unidirectional digital broadband network;

a wireless bi-directional communications network; and

5 a controller connected to both networks, the controller comprising:

a processor;

a storage device; and

software ~~means~~ operative on the processor for:

maintaining in the storage device a database including threshold values associated with content corresponding to user activity;

10 monitoring user activity in a wireless bi-directional communications network;

and delivering the content to a terminal connected to a wireless unidirectional digital broadband network when the user activity exceeds the corresponding threshold value.

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According to a still further aspect of the invention, there is provided ~~A~~ content delivery method comprising monitoring user activity in a wireless bi-directional communications network within an area and delivering content to a user terminal of a wireless unidirectional digital broadband network when a number

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of connected user terminals to the wireless bi-directional communications network within ~~said~~ area exceeds a predetermined threshold value.

Brief Description of the Drawings ← *All copy*

25 In order to aid in understanding the present invention, a particular embodiment thereof will now be described by way of example and with reference to the accompanying drawings, in which:

Figure 1 is a diagrammatic view of a prior art Public Land Mobile Network

30 (PLMN) topology;

Figure 2 is schematic view of a content delivery system according to one aspect of the present invention; and

Figure 3 is a flowchart illustrating a method for use with the system of Figure 2.

Preferred Embodiments of
Detailed description of the invention ←

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Referring to Figure 1, there is shown a typical cellular topology of a public land mobile network (PLMN) 1 covering a region. As is well known to those skilled in the art, the PLMN 1 remains informed of a cell in which a mobile station (MS) is located. Typically, an MS periodically contacts the PLMN 1 and the PLMN 1 stores location information in a database known in the GSM case, at least, as a Home Location Register (HLR) 3. Depending on the particular PLMN 1, the location information stored in the HLR 3 may indicate at best a particular cell in which a MS is located or alternatively, a group of cells. Again depending on the particular PLMN, the HLR 3 will obtain periodic updates of the MS location. The information held in the HLR relating to a MS is, of course, required to enable connection of a call to a MS.

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Within the region covered by the PLMN 1, there are a number of cells in which concentrations of MS may, from time to time occur. Thus in Cell C there is located a conference centre, in Cell G an airport and in Cell H a motorway junction. Clearly, any increase in the number of MS in these or indeed any other cell in the PLMN 1 will be represented in the information stored in the HLR 3.

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20 Turning now to Figure 2, this illustrates a content delivery system 5 including a terrestrial broadband digital broadcast (BDB) network 7 namely a digital video broadcast (DVB-T) network. A user equipped with a suitable terminal 9 incorporating a receiver (not shown), display 11 and user interface (not shown) can receive data broadcast by the BDB network 7 from a transmitter 13. The data broadcast by the transmitter 13 is derived from a variety of sources 15 via a gateway 17 and may include IP and Television content.

Before transmission, the data received from each source is processed in head-end equipment 19. As is well known in the art, the head end equipment 19 places the data into MPEG-based data containers. To cater for the delivery of data to a particular terminal 9 or group of terminals, the containers may 5 also hold address information which can be identified and read by a conditional access component in each terminal 9 to determine whether the data is intended for that terminal 9. The BDB network 7 also provides the facility for suitably equipped terminals 9 to interact with the BDB network 7. By suitably equipped terminal is meant a terminal 9 having a return channel 10 Rc 21 for providing network interactivity as exemplified in the case of DVB by a number of specifications published by the Digital Video Broadcasting Office and also the European Telecommunications Standards Institute (ETSI) including the following: DVB-NIP Network Independent Protocols for DVB Interactive Services ETS 300 802 (V1: 11/97), Guidelines for the use of the 15 Network Independent Protocols for DVB Interactive Services TR 101 194 (V1.1.1: 06/97), DVB-RCP DVB interaction channel through the Public Switched Telecommunications System (PSTN) / Integrated Services Digital Network (ISDN) ETS 300 801 (V1: 08/97), DVB-RCG Interaction channel through the Global System for Mobile communications (GSM) EN 301 195 20 (V1.1.1 : 02/99).

Thus, a user may request the delivery of a computer file by the BDB network 7 to ~~the user~~ terminal 9. As has been indicated above, such interactive 25 functionality requires a return channel 21 from the terminal 9 to the DVB-T network 7 and a conditional access component in the terminal 9. The modem functionality is conveniently provided by a ~~mobile station~~ 3 connected to the PLMN 1, the main features of which are well known to those skilled in the art. To provide a return channel 21 from the terminal 9 to the BDB network 7, a 30 connection is provided between the PLMN 1 and a subscriber management system (SMS) 23 of the BDB network 7. The MS 3 may be a separate entity in which case it could be interfaced to the Terminal 9 over a Low Power Radio

Frequency (LPRF) or Infrared (IR) connection 25. Alternatively, the MS 3 may be integrated with the terminal 9.

As has been previously mentioned, the SMS 23 already has connections to

5 the gateway 17 and the transmitter head-end equipment 19. It is thus possible for the user to issue requests for specific content via the user interface of the terminal 9 and thus through the MS 9 connected to the PLMN 1. The request is received by the SMS 23 which obtains the content from the gateway 17 and passes it to the head-end 19 for placing into data containers 10 for onward transmission. It should be noted that the request from the user might include content which is not presently being transmitted by the BDB network 7. To ensure that the user only receives the requested content, the data is broadcast with an identifier which the conditional access component in 15 the terminal 9 recognises as being intended for delivery to the user. In the event that the content is received by another terminal 9, the conditional access component of that terminal 9 will prevent delivery of the content.

It will be further noted that interposed between the HLR 3 and SMS 23, is a 20 controller 27 which although shown as a distinct entity could equally form part of the HLR/PLMN and/or SMS/BDB architecture. The controller 27 monitors the contents of the HLR 3 to identify where user activity in the PLMN 1 meets a pre-defined criterion. Thus, the HLR 3 may be monitored to identify those 25 locations in the PLMN topology where the number of MS exceeds a particular threshold. In those locations where the threshold is exceeded, the controller 27 identifies that a so-called "hot-spot" exists. The controller 27 also includes a database which contains details of the likely source of a hot spot at a particular location. Examples of a potential source of a hot-spot have been mentioned above. Thus, there exists a conference centre, airport and motorway junction within the coverage areas of cells C, G and H respectively.

30 The database also includes an estimate of the likely ratio of MS to active terminals expected according to the category of the potential hot-spot. Thus at a conference centre there is likely to be a strong correlation between the

number of active MS present and the number of active terminals, although not necessarily belonging to the same users. However, at a motorway junction although the number of MS present may be quite high, the number of active terminals present may be much lower than that in the previous example as those terminals that are present may be switched off for safety reasons. Such estimates may be based on a statistical analysis of the likely type of MS user present at a particular source and his likely pattern of terminal use in such circumstances. Alternatively or additionally, the estimate could be built up through observation of the activity patterns of groups of users of the PLMN 1.

10 Thus, as has been said, at a sporting event, or on the motorway, the ratio may be low whereas in an airport or at a conference centre the ratio could be much higher. The information or profile determined by the controller 27 is then utilised through providing opportunities to content providers to deliver content to users in those hot spots. The controller 27 will also be able to establish a 15 cost for delivering the content based on the demand on bandwidth and the like.

20 The controller 27 further provides monitoring means for establishing a trigger level for demand in a particular location or locations which ^{for example} might be a small as a single group or as large as substantial portion or portions of the network ~~for example~~

25 In a further refinement of the above embodiment, the controller is given access to personal profiles of the users of MS and/or Terminals in the PLMN and BDB networks respectively. Thus, the identity of a user or group of users in a hot-spot could first be established from the information in the HLR 3 and the controller 27 could then provide the additional information contained in the corresponding personal profile(s) to a content provider. The content provider would then be further assisted in the selection of delivery opportunities for 30 relevant content, that is the delivery criterion could be modified, if appropriate.

As will be apparent, the profile established by the controller 27 allows careful tailoring of the delivery of content to a group of terminals 9. It will further be appreciated that rather than set a single criterion or threshold in the controller 27 to determine locations having high demand, a set of different thresholds 5 may be set having differing levels of demand thus giving the controller 27 operator the opportunity to provide a more accurate profile to potential content providers together with a correspondingly banded pricing structure.

One example of how an embodiment of the invention might be employed in 10 delivering content to a terminal or terminals is set out below and illustrated in the flowchart of **Figure 3.**

An advertiser might receive instructions from a client to promote services or goods. For example, a hotel chain may have a large number of rooms 15 available in proximity to the conference centre. The advertiser will, through negotiation with a service provider establish content 30 suitable for promoting the hotel chain. This information could be tailored to suit different localities where rooms ^{and} ~~were~~ available perhaps by including local tourist information. The service provider will then, on the instructions of the advertiser establish a 20 criterion or trigger level 40 at which the content would be provided both by reference to locality and user profile. This information would be provided to the BDB network operator who would program the controller 27 with the appropriate information. Subsequently, should the trigger be met ^{criterion} 50 by user 25 ~~of roaming by determined to be available at step 52~~ ~~determined to be~~ activity in the PLMN network 1, then the delivery ^{criterion} 50 of content from the service provider in the format agreed by the advertiser would take place. *at step 60*

Further embodiments of invention are described below:

A controller may be connectable to a wireless unidirectional digital broadband 30 network and to a wireless bi-directional communications network. The controller includes a processor operable to initiate delivery of content via the wireless unidirectional digital broadband network to a determined area. This

* After the criterion are established at point 40, the PLMN 1 is interrogated at 42. The results of the interrogation are provided to point 50 at which determination as made if the criterion are met

occurs in response to a number of user terminals in the determined area connected to the wireless bi-directional communications area exceeding a predetermined threshold value.

5 A corresponding content delivery system may also be provided.

The content delivery system may comprise a wireless unidirectional digital broadband network, a wireless bi-directional communications network; and a controller connected to both networks. The controller may comprise a

10 processor, a storage device and software ~~means~~ operative on the processor for maintaining in the storage device a database including threshold values associated with content corresponding to user activity. Further the software needs to monitor user activity in a wireless bi-directional communications network. Also, software takes care of delivering the content to a terminal connected to a wireless unidirectional digital broadband network when the user activity exceeds the corresponding threshold value.

One more embodiment relates to a content delivery method. The method comprises monitoring user activity in a wireless bi-directional communications

20 network within an area and delivering content to a user terminal of a wireless unidirectional digital broadband network when a number of connected user terminals to the wireless bi-directional communications network within said ^{the} area exceeds a predetermined threshold value.

25 It should be noted that although in the foregoing embodiment the terminal 9 is described as being interfaced to a MS 3 in order to provide a return channel 21, the presence of such an interface or indeed a return channel 21 is not necessary for the performance of the invention. Those skilled in the art will recognise that the only necessity is that there exists a population of users in 30 one network whose activities can be correlated with the presence of terminals for delivery of content by another network.

What is claimed is:-

1. A controller connectable to first and second wireless networks, the controller ^{IP} ~~including~~ a processor operable to initiate delivery of content by ^{IP} ~~said~~ first network in response to a criterion being met by data derived from ^{IP} ~~said~~ second network.
5. 2. A controller as claimed in Claim 1, ^{IP} ~~further including~~ criterion establishing means operable to establish a criterion as a function of at least one indicia representative of user activity in ^{IP} ~~said~~ second network.
10. 3. A controller as claimed in Claim 2, wherein the criterion establishing means is further operable to associate ^{IP} ~~said~~ criterion with particular content to be delivered over ^{IP} ~~said~~ first network.
15. 4. A controller as claimed in Claim 3, wherein the processor is operable to initiate delivery of content whose associated criterion is met.
20. 5. A controller as claimed in Claim 1, wherein the criterion is met when the data derived from ^{IP} ~~said~~ second network exceeds a predetermined threshold value.
25. 6. A controller as claimed in Claim 5, wherein the data derived from the second network comprises a number of connected user terminals to ^{IP} ~~said~~ second network.
30. 7. A controller as claimed in Claim 1, wherein the first wireless network is a unidirectional digital broadband network and the second wireless network is a bi-directional communications network.

8. A controller as claimed in Claim 7, wherein the unidirectional digital broadband network is a Digital Video Broadcast (DVB) network.

9. A content delivery system comprising first and second wireless networks and a controller connected thereto, the controller including a processor operable to initiate delivery of content by ~~said~~ first network in response to a criterion being met by data derived from ~~said~~ second network.

10. 10. A system as claimed in Claim 9, wherein the controller includes criterion establishing means operable to establish a criterion as a function of at least one indicia representative of user activity in ~~said~~ second network.

15. 11. A system as claimed in Claim 9 ~~or Claim 10~~, wherein the second network includes a register of user activity data derivable by ~~said~~ controller.

20. 12. A system as claimed in ~~any one of Claims 9 to 11~~, wherein the criterion establishing means is further operable to associate ~~said~~ criterion with a respective at least one content to be delivered by ~~said~~ first network.

25. 13. A system as claimed in ~~any one of Claims 9 to 12~~, further including at least one source of content, ~~said~~ source being responsive to ~~said~~ controller to supply content to ~~said~~ first network for delivery thereby.

14. A system as claimed in Claim 9, wherein the criterion is met when the data derived from ~~said~~ second network exceeds a predetermined threshold value.

15. A system as claimed in Claim 14, wherein the data derived from the second network comprises a number of connected user terminals to ~~said~~ second network.

5 16. A system as claimed in Claim 9, wherein the first wireless network is a unidirectional digital broadband network and the second wireless network is a bi-directional communications network.

10 17. A system as claimed in Claim 16, wherein the unidirectional digital broadband network is a Digital Video Broadcast (DVB) network.

18. A content delivery method comprising monitoring user activity in a second network relative to a criterion and delivering content to a terminal of a first network when the criterion is met.

15 19. A method as claimed in Claim 18, including associating ~~said~~ criterion with particular content to be delivered by the first network.

20 20. A method as claimed in Claim 19, including comparing ~~said~~ content with a profile of a user of a terminal such that content compatible with ~~said~~ profile is delivered.

25 21. A method as claimed in Claim 20, wherein ~~said~~ profile is obtained by determining a pattern of use of ~~said~~ second network by said user.

22. A method as claimed in Claim 18, wherein the criterion is met when the data derived from ~~said~~ second network exceeds a predetermined threshold value.

23. A method as claimed in Claim 22, wherein the data derived from the second network comprises a number of connected user terminals to ~~the~~ second network.

5 24. A method as claimed in Claim 18, wherein the first wireless network is a unidirectional digital broadband network and the second wireless network is a bi-directional communications network.

10 25. A method as claimed in Claim 24, wherein the unidirectional digital broadband network is a Digital Video Broadcast (DVB) network.

15 26. A controller connectable to a wireless unidirectional digital broadband network and to a wireless bi-directional communications network, the controller ~~including~~ ^(containing) a processor operable to initiate delivery of content via the wireless unidirectional digital broadband network to a determined area in response to a number of user terminals in the determined area connected to the wireless bi-directional communications area exceeding a predetermined threshold value.

20 27. A controller as claimed in Claim 26, wherein the processor is further operable to associate a certain threshold value with a particular content.

25 28. A controller as claimed in Claim 27, wherein the threshold value is corresponding to a number of active user terminals in the determined area.

30 29. A content delivery system comprising:
a wireless unidirectional digital broadband network;
a wireless bi-directional communications network; and
a controller connected to both networks, the controller including a processor operable to initiate delivery of content via the wireless

unidirectional digital broadband network to a determined area in response to a number of user terminals in the determined area connected to the wireless bi-directional communications area exceeding a predetermined threshold value.

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30. A controller as claimed in Claim 29, wherein the processor is further operable to associate a certain threshold value with a particular content. *PP*

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31. A controller as claimed in Claim 30, wherein the threshold value is corresponding to a number of active user terminals in the determined area. *PP*

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32. A content delivery system, comprising;
a wireless unidirectional digital broadband network;
a wireless bi-directional communications network; and
a controller connected to both networks, the controller comprising

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a processor;
a storage device; and
software means operative on the processor for *PP*
maintaining in the storage device a database including threshold values
associated with content corresponding to user activity;
monitoring user activity in a wireless bi-directional communications
network and
delivering the content to a terminal connected to a wireless
unidirectional digital broadband network when the user activity exceeds
the corresponding threshold value.

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33. A content delivery method comprising: monitoring user activity in a wireless bi-directional communications network within an area and delivering content to a user terminal of a wireless unidirectional digital broadband network when a number of connected user terminals to the

wireless bi-directional communications network within ~~said~~ area exceeds a predetermined threshold value.

34. A content delivery method as claimed in Claim 33, wherein the
5 threshold value is corresponding to a number of active user terminals
in said area.

Abstract

Improvements in and relating to a broadcast network

A content delivery service is described for delivering content over a
5 broadband digital broadcast network (7). A controller (27) allows the delivery
of content to be made in accordance with activity in a public land mobile
network 1. The delivery of content may therefore be effectively scheduled
and at an appropriate revenue level.

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